

SYLLABUS DEL CORSO

Smart materials, from molecular switches to motors

2526-116R-M12

Obiettivi

The focus of the lectures is on molecular nanoscience, novel responsive materials, molecular switches and motors, inspired by Nature's principles of molecular assembly, recognition, transport, motion and catalysis. A second part of the program deals with the principle to fabricate porous architectures endowed with molecular dynamics in the solid state and on command gas capture and release by chemical and physical stimuli.

Contenuti sintetici

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Programma esteso

Module A: Porous Materials as a valid platform to promote ultrafast dynamics and functional properties in the solid state

Module B: From molecular switches to motors

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Prerequisiti

Modalità didattica

Module A requires 4 hours of frontal teaching.
Module B requires 4 hours of frontal teaching

Materiale didattico

Slides

Periodo di erogazione dell'insegnamento

Last week of November 2025, first week of December 2025

Modalità di verifica del profitto e valutazione

Brief report on a specific topics assigned by the teacher

Orario di ricevimento

Write an email to angiolina.comotti@unimib.it

Sustainable Development Goals

ISTRUZIONE DI QUALITÁ
